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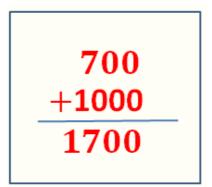
NCERT Class 6 Solutions: Knowing Your Numbers (Chapter 1) Exercise 1.3 – Part 1

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- Q-1 Estimate each of the following using general rule:
 - 1.730 + 998
 - 2.796 314
 - 3. 12,904 + 2,888
 - 4. 28,292 21,496

Solution:

- 1.730 + 998
- By rounding off to hundreds
- 730 rounds off to 700 and 998 rounds off to 1000.
- Estimate sum is 1700

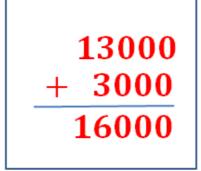


- 1.796 314
- 2. By rounding off to hundreds
- 3. 796 round off to 800 and 314 round off to 300

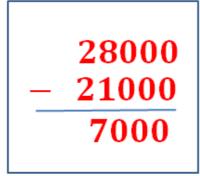
4. Estimate difference is 500



- 1. 12,904 + 2,888
- 2. By rounding off two nearest thousands
- 3. 12904 round off to 13000 and 2888 round off to 3000.
- 4. Estimate sum is 16000



- 1. 28,292 21,496
- 2. By rounding off to nearest thousands
- 3. 28292 rounds off to 28000 and 21496 rounds off to 21000.
- 4. Estimate diffrence is 7000



Q-2 Give a rough estimate (by rounding numbers off to nearest hundreds before calculation) and also a closer estimate (by rounding off to nearest tens):

- 1.439 + 334 + 4317
- 2. 1,08,737 47,599
- 3. 8325 491
- 4. 4,89,348 48,365

How to Round Numbers

Decide which is the last digit to keep, for example when off to rounding to hundreds the units and tens digit will become zero and the hundreds digit will be kept. So we will be working on the hundreds digits

Leave it the same if the next digit is less than 5 (this is called rounding down)

Increase it by 1 if the next digit is 5 or more (this is called rounding up)

Example 1: To round 764 to the nearest 100

- We look at the digit right after the hundred's digit
- Since it is 6 the 7 in the hundreds place is changed to 8 and the answer becomes 800.

Example 2: Round 86 to the nearest 10

- We want to keep the "8"
- The next digit is "6" which is 5 or more, so increase the "8" by 1 to "9"

Answer: 90. We say that 86 gets "rounded up"

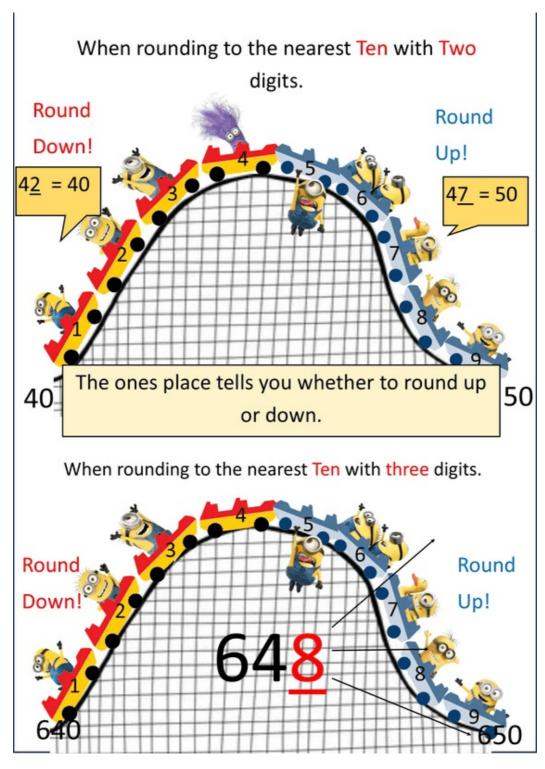
Rounding can be understood with a roller coaster:

Rounding Rollercoaster



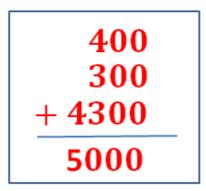
- · 4 or less-STAY THE SAME
- •5 or more-GO HIGHER

Here are 2 examples:

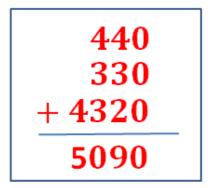


Solution:

- 1.439 + 334 + 4317
- 2. By rounding off to **nearest hundreds**
- 3. 439 rounds off to 400,334 rounds off to 300 and 4317 rounds off to 4300
- 4. The digit we need to look at to decide the value of hundreds digit is underlined



- By rounding off to nearest tens
- 439 rounds off 440,33<u>4</u> rounds off 330 and 431<u>7</u> rounds off 4320
- The digit we need to look at to decide the value of tens digit is underlined



- 2. By rounding off to nearest hundreds
- 3. 108737 rounds off 108700,47599 rounds off 47600
- 4. The digit we need to look at to decide the value of hundreds digit is underlined

108700 - 47600 61100

- By rounding off to nearest tens
- 108737 rounds off 108730,47599 rounds off 47600
- The digit we need to look at to decide the value of tens digit is underlined

108730 - 47600 61130

- 1.8325 491
- 2. By rounding off to nearest hundreds
- 3. 8325 rounds off 8300,491 rounds off 500

4. The digit we need to look at to decide the value of hundreds digit is underlined

8300 - 500 7800

- By rounding off to nearest tens
- 8325 rounds off 8330,491 rounds off 490
- The digit we need to look at to decide the value of tens digit is underlined

8330 -490 7840

- 1. 4,89,348 48,365
- 2. By rounding off to nearest hundreds
- $3.\,4893\underline{4}8$ rounds off $489300,483\underline{6}5$ rounds off 48400

489300 - 48400 440900

- By rounding off to nearest tens
- 4893<u>4</u>8 rounds off 489350,483<u>6</u>5 rounds off 48370

8330 -490 7840